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NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

**PHOTOGRAPHIC  
INTERPRETATION  
REPORT**

**KURGAN-TYUMEN  
TV/MICROWAVE LINE  
USSR**

25X1

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25X1

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PIR-004/71  
January 1971

25X1

KURGAN-TYUMEN TV/MICROWAVE LINE  
USSR

ABSTRACT

1. A review of KEYHOLE photography obtained in 1969 and 1970 and covering the area between Kurgan and Tyumen, USSR, revealed the existence of a TV/microwave line between the two cities.

INTRODUCTION

2. A TV/microwave line extending in an approximate north-south direction between Kurgan (55-26-26N 165-18-49E) and Tyumen (57-10-00N 065-33-08E), USSR, has been identified on KEYHOLE photography of fair to good interpretability and dated from December 1968 through December 1970 (Figure 1). This communications line is comprised of six microwave towers of which three were observed for the first time on photography of December [redacted]. The total length of the line is 116.5 nautical miles (215 kilometers). A search on photography has revealed no other electronics (communications) facilities in the area concerned. The following section of this report contains descriptions of the six facilities comprising the Kurgan-Tyumen TV/microwave line.

25X1

BASIC DESCRIPTION

3. Kurgan Radio Relay and TV and FM Broadcast Center  
55-25-25N 065-16-20E, [redacted]

25X1  
25X1

This secured facility contains one self-supporting tower with a TV transmitting antenna on top, at least four R600 microwave antennas, one central building, and six support buildings.

4. Shmakovo Radio Relay Station  
55-48-40N 065-22-00E, [redacted]

25X1  
25X1

This secured facility contains a guyed microwave tower, a control building, and a support building. The small scale of the photography precluded identification of microwave elements.

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PIR-004/71

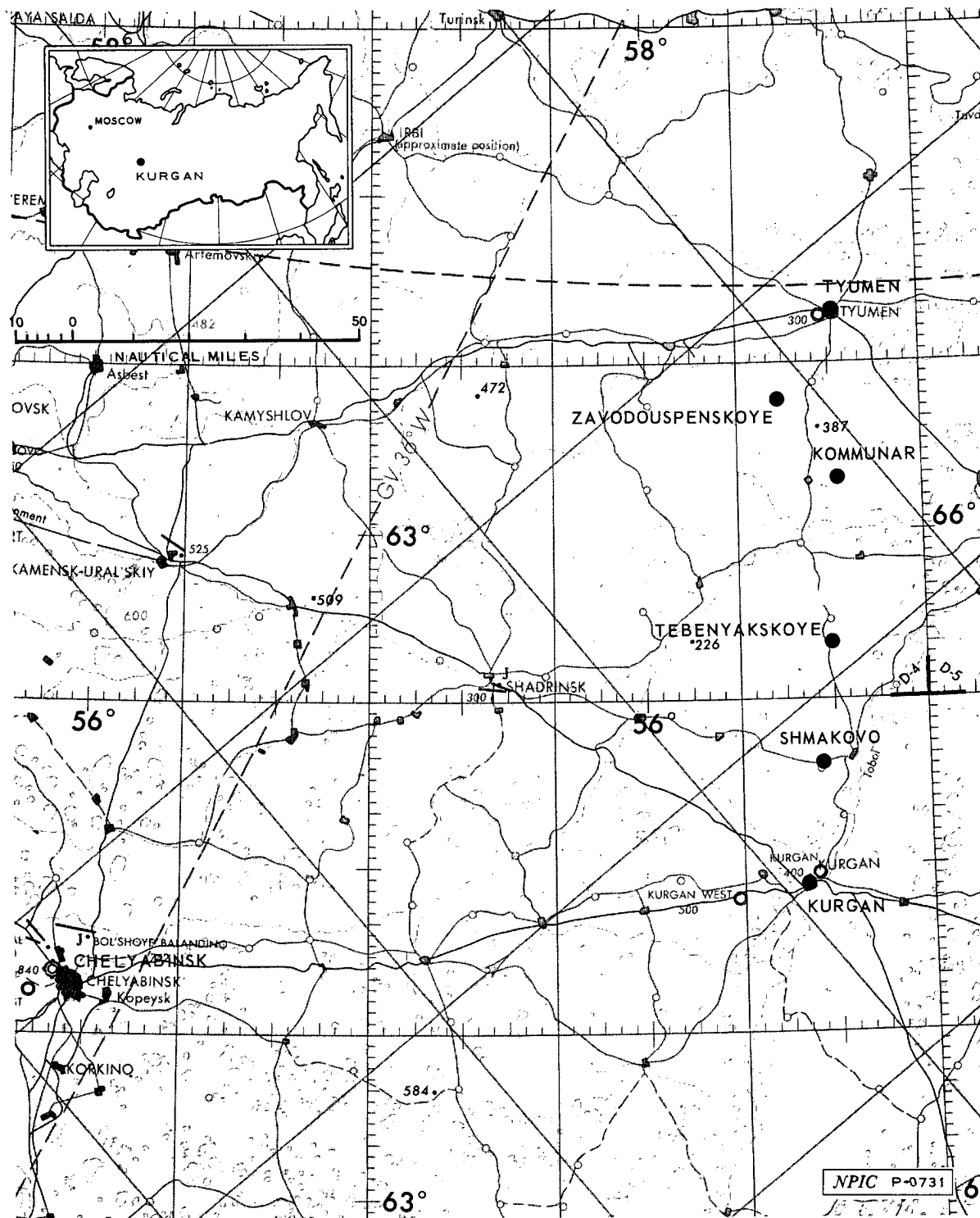


FIGURE 1. LOCATION MAP

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PIR-004/71

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25X1

## 5. Tebenyaskoye Radio Relay Station

56-10-00N 065-27-25E, [REDACTED]  
[REDACTED]25X1  
25X1

This secured facility contains one guyed microwave tower, one control building, and one support building. The small scale of the photography precluded identification of microwave elements.

## 6. Kommunar Radio Relay Station

56-34-35N 065-30-30E, [REDACTED]  
[REDACTED]25X1  
25X1

This secured facility contains one guyed microwave tower, one control building, and one support building. The small scale of the photography precluded identification of microwave elements.

## 7. Zavodouspenskoye Microwave Facility

56-52-00N 065-01-20E, [REDACTED]  
[REDACTED]25X1  
25X1

This secured facility contains one guyed microwave tower, one control building, and one support building. The small scale of the photography precluded identification of microwave elements.

## 8. Tyumen Probable TV/Microwave Facility

57-08-30N 065-31-20E, [REDACTED]  
[REDACTED]25X1  
25X1

This secured area contains one probable Self-supporting microwave tower, one probable control building, and one probable support building. The interpretability of available photography precludes positive identification of the facility.

## REQUIREMENT

[REDACTED]  
NPIC/IEG/WGD/WURB Project 250949

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